MAR 2 1 2005 PTO/SB/17 (12-04) Effective on 12/08/2004. Complete if Known Effective on 1208/2004.

Dune Consolidated Appropriations Act, 2005 (H.R. 4818). 09/837,711 Application Number TRANSMITTAL April 17, 2001 Filing Date For FY 2005 Withers, Stephen G. First Named Inventor E. Slobodyansky **Examiner Name** Applicant claims small entity status. See 37 CFR 1.27 1652 Art Unit TOTAL AMOUNT OF PAYMENT (\$) 180015119-000430US Attorney Docket No. METHOD OF PAYMENT (check all that apply) Check | Credit Card | Money Order | None Other (please identify): Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew LLP For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below, except for the filing fee Charge fee(s) indicated below Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 Credit any overpayments WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038 **FEE CALCULATION** 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **FILING FEES SEARCH FEES EXAMINATION FEES** Small Entity Small Entity **Small Entity** Fees Paid (\$) Fee (\$) Fee (\$) **Application Type** Fee (\$) Fee (\$) Fee (\$) Fee (\$) 100 Utility 300 150 500 250 200 100 50 130 65 Design 200 100 300 150 160 80 Plant 200 100 600 300 300 150 500 250 Reissue 0 0 0 0 200 100 Provisional 2. EXCESS CLAIM FEES **Small Entity** Fee (\$) Fee (\$) Fee Description Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent 50 25 Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent 200 100 180 Multiple dependent claims Multiple Dependent Claims Total Claims **Extra Claims** Fee (\$) Fee Paid (\$) Fee Paid (\$) 13 -20 or HP = Fee (\$) HP = highest number of total claims paid for, if greater than 20 Fee Paid (\$) Indep. Claims **Extra Claims** Fee (\$) 1____ -3 or HP = HP = highest number of independent claims paid for, if greater than 3 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity)

SUBMITTED BY	10		
Signature	Walt	Registration No. (Attorney/Agent) 34,774	Telephone 415-576-0200
Name (Print/Type)	Kevin Bastian		Date March 17, 2005

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Other: Submission of Information Disclosure Statement

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Non-English Specification, \$130 fee (no small entity discount)

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4. OTHER FEE(S)

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VA 22313-1450 on March 12, 2005

By: Stephanie J. Whitehurst

PATENT

Attorney Docket No.: 015119-000430US

Client Ref. No.: UBC00089



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Stephen G. Withers et al.

Application No.: 09/837,711

Filed: April 17, 2001

For: METHODS AND COMPOSITIONS FOR

SYNTHESIS OF OLIGOSACCHARIDES

USING MUTANT GLYCOSIDASE

ENZYMES

Customer No. 20350

Examiner: E. Slobodyansky

Art Unit: 1652

INFORMATION DISCLOSURE STATEMENT UNDER

37 CFR §1.97 and §1.98

MAIL STOP AMENDMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08B are being called to the attention of the Examiner. Copies of the references AA - AH are enclosed.

Also enclosed is a copy of the Partial European Search Report corresponding to the co-pending European application.

Stephen G. Withers *et al.* Application No.: 09/837,711

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It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Date: March 17, 2005

y. - | |

Kewin Bastlan Reg. No. 34.774

TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, Eighth Floor San Francisco, CA 94111-3834

Tel: 206-467-9600 Fax: 415-576-0300

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Substitute for form 1449B/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known				
Application Number	09/837,711			
Filing Date	April 17, 2001			
First Named Inventor	Withers, Stephen G.			
Art Unit	1652			
Examiner Name	E. Slobodyansky			
Attorney Docket Number	015119-000430US			

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²		
-	AA	BRAYER, G. et al., "The structure of human pancreatic a-amylase at 1.8 Å resolution and comparisons with related enzymes," <i>Protein Science</i> , 4:1730-1742 (1995).			
	AB	BUISSON, G. et al., "Three dimensional structure of porcine pancreatic α-amylase at 2.9 Å resolution. Role of calcium in structure and activity," <i>EMBO J.</i> , 6:3909-3916 (1987).			
	AC	ISHIKAWA, K. et al., "Substrate recognition at the binding site in mammalian pancreatic a-amylases," Biochemistry, 32:6259-6265 (1993).			
	AD	NAKAJIMA, R. et al., "Comparison of amino acid sequences of eleven different α-amylases," <i>Appl. Microbiol. Biotechnol.</i> , 23:355-360 (1986).			
	AE	QIAN, M. et al., "The active center of a mammalian α-amylase. Structure of the complex of a pancreatic α-amylase with a carbohydrate inhibitor refined to 2.2-Å resolution," <i>Biochemistry</i> , 33:6284-6294 (1994).			
	AF	RYDBERG, E. <i>et al.</i> , "Cloning, mutagenesis, and structural analysis of human pancreatic <i>a</i> -amylase expressed in <i>Pichia pastoris</i> ," <i>Protein Sci.</i> , 8:635-643 (1999).			
	AG	SATO, T. <i>et al.</i> , "The conformation of mature human α -amylase conditions its secretion from yeast," <i>Gene</i> , 83:355-365 (1989).			
	АН	TAKASE, K. et al., "Site-directed mutagenesis of active site residues in Bacillus subtilis α-amylase," Biochim. Biophys. Acta., 1120:281-8 (April 17, 1992).			

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